

AMENDMENTS TO THE CLAIMS

Please cancel all of the originally presented claims, i.e., claims 1-19 and replace them with the following new claims:

Claims 1-19 (cancelled).

20. (New) A thermostatically regulated roasting/grilling device with a roasting/grilling plate incorporated in the roasting/grilling device for directly placing food onto said plate, comprising at least one measurement coil forming an element of a high-frequency oscillation circuit, wherein with the at least one measurement coil the temperature of the roasting/grilling plate may be monitored in a contactless manner by way of electromagnetic radiation and the temperature may be used for the thermostatic regulation of the roasting/grilling power.

21. (New) A roasting/grilling device according to claim 20, wherein the roasting/grilling plate contains a ferromagnetic material and wherein at least one induction coil is present for heating the roasting/grilling plate.

22. (New) A roasting/grilling device according to claim 21, wherein the induction

coil is designed with a rectangular shape and the size of this induction coil corresponds essentially to the extension of the roasting/grilling plate.

23. (New) A roasting/grilling device according to claim 22, wherein the distances d_1 between two winding sections on longitudinal sides of the rectangular coil and distances d_2 between two winding sections on width sides of the rectangular coil are different and vary as a function of the winding diameter.

24. (New) A roasting/grilling device according to claim 21, wherein the windings of the induction coil are arranged in a manner such that an essentially homogeneous magnetic field may be produced essentially on the complete extension of the roasting/grilling plate.

25. (New) A roasting/grilling device according to claim 22, wherein the windings of the induction coil are arranged in a manner such that an essentially homogeneous magnetic field may be produced essentially on the complete extension of the roasting/grilling plate.

26. (New) A roasting/grilling device according to claim 21, wherein at least one measurement coil is arranged between the roasting/grilling plate and the induction coil.

27. (New) A roasting/grilling device according to claim 22, wherein at least one measurement coil is arranged between the roasting/grilling plate and the induction coil.

28. (New) A roasting/grilling device according to claim 26, wherein the at least one measurement coil is arranged in a manner such that it covers essentially the same region of the roasting/grilling plate as the induction coil.

29. (New) A roasting/grilling device according to claim 27, wherein the at least one measurement coil is arranged in a manner such that it covers essentially the same region of the roasting/grilling plate as the induction coil.

30. (New) A roasting/grilling device according to claim 26, comprising two measurement coils forming a measurement coil unit, which measurement coils are arranged next to one another in an opposing manner in the induction field of the induction coils.

31. (New) A roasting/grilling device according to claim 27, comprising two measurement coils forming a measurement coil unit, which measurement coils are arranged next to one another in an opposing manner in the induction field of the induction coils.

32. (New) A roasting/grilling device according to claim 28, comprising two measurement coils forming a measurement coil unit, which measurement coils are arranged next to one another in an opposing manner in the induction field of the induction coils.

33. (New) A roasting/grilling device according to claim 29, comprising two measurement coils forming a measurement coil unit, which measurement coils are arranged next to one another in an opposing manner in the induction field of the induction coils.

34. (New) A roasting/grilling device according to claim 26, comprising a compensation circuit, which compensates disturbing influences of changes of the electrical resistance of the induction coil and of the at least one measurement coil occurring with changes of temperature, on the measurement result of the measurement coil or measurement coil unit.

35. (New) A roasting/grilling device according to claim 27, comprising a compensation circuit, which compensates disturbing influences of changes of the electrical resistance of the induction coil and of the at least one measurement coil occurring with changes of temperature, on the measurement result of the measurement coil or measurement coil unit.

36. (New) A roasting/grilling device according to claim 28, comprising a

compensation circuit, which compensates disturbing influences of changes of the electrical resistance of the induction coil and of the at least one measurement coil occurring with changes of temperature, on the measurement result of the measurement coil or measurement coil unit.

37. (New) A roasting/grilling device according to claim 29, comprising a compensation circuit, which compensates disturbing influences of changes of the electrical resistance of the induction coil and of the at least one measurement coil occurring with changes of temperature, on the measurement result of the measurement coil or measurement coil unit.

38. (New) A roasting/grilling device according to claim 21, wherein the induction coil is also a measurement coil, and that a temperature measurement takes place when the induction power is switched off.

39. (New) A roasting/grilling device according to claim 20, comprising a regulation and control unit which measures the temperature of the roasting/grilling plate in time intervals which are larger, the smaller is a temperature difference between two successive temperature measurements.

40. (New) A roasting/grilling device according to claim 21, wherein exactly one

regulation and control unit is allocated to each induction coil.

41. (New) A roasting/grilling device according to claim 20, comprising a calibration device with which measurement levels of various temperatures of the roasting/grilling plate may be determined and stored.

42. (New) A roasting/grilling device according to claim 20, wherein the roasting/grilling plate comprises several regions which may be individually heated and whose temperature may be determined and set in an individual manner.

43. (New) A roasting/grilling device according to claim 42, wherein in the roasting/grilling plate there are provided means which prevent a temperature transfer between the individual regions.

44. (New) A roasting/grilling device according to claim 43, wherein the roasting/grilling plate is a multi-layer plate which contains a layer of aluminium between two layers of stainless steel and that a wedge is incorporated in the aluminium layer.

45. (New) A roasting/grilling device according to claim 20, comprising a heat-

resistant and corrosion-resistant roasting/grilling plate surface which in the heated condition and with roasting/grilling plate temperatures in the application range has low radiation temperatures in a manner such that with a roasting/grilling plate temperature of 200°C, temperatures of smaller than 70°C are measured close to the roasting/grilling surface.

46. (New) A roasting/grilling device according to claim 45, wherein the roasting/grilling plate in the region of the roasting/grilling plate surface comprises at least two successive thin layers, wherein the at least two thin layers in total contain 10-15% phosphor.

47. (New) A roasting/grilling device according to claim 46, wherein the at least two thin layers have a phosphor constituent of 12-15% and a chromium constituent of 15-30%.

48. (New) A thermostatically regulated roasting/grilling device with a roasting/grilling plate incorporated in the roasting/grilling device for directly placing food onto said plate, comprising at least one measurement coil unit forming an element of a high-frequency oscillation circuit, with said at least one measurement coil unit the temperature of the roasting/grilling plate may be monitored in a contactless manner by way of electromagnetic radiation and the temperature may be used for the thermostatic regulation of the roasting/grilling power, wherein the roasting/grilling plate contains a ferromagnetic material,

the roasting/grilling device further comprising:

at least one induction coil for heating the roasting/grilling plate, wherein the size of said induction coil corresponds essentially to the extension of said roasting/grilling plate, and wherein the at least one measurement coil unit is arranged between the roasting/grilling plate and the induction coil in a manner such that it covers essentially the same region of the roasting/grilling plate as the induction coil, and wherein two measurement coils form said measurement coil unit, which two measurement coils are arranged next to one another in an opposing manner in the induction field of the induction coil.

49. (New) A thermostatically regulated roasting/grilling device with a roasting/grilling plate incorporated in the roasting/grilling device for directly placing food onto said plate, wherein at least one measurement coil forms an element of a high-frequency oscillation circuit, and wherein with said at least one measurement coil the temperature of the roasting/grilling plate may be monitored in a contactless manner by way of electromagnetic radiation and the temperature may be used for the thermostatic regulation of the roasting/grilling power, and wherein at least one induction coil is present for heating the roasting/grilling plate, the induction coil being designed with a rectangular shape and in a manner such that the distances d_1 between two winding sections on longitudinal sides of the rectangular coil and distances d_2 between two winding sections on width sides of the

rectangular coil are different and vary as a function of the winding diameter, whereby an essentially homogeneous magnetic field may be produced essentially on the complete extension of the roasting/grilling plate.

50. (New) A thermostatically regulated roasting/grilling device with a roasting/grilling plate incorporated in the roasting/grilling device for directly placing food onto said plate, comprising at least one measurement coil forming an element of a high-frequency oscillation circuit, wherein with said at least one measurement coil the temperature of the roasting/grilling plate may be monitored in a contactless manner by way of electromagnetic radiation and the temperature may be used for the thermostatic regulation of the roasting/grilling power, further comprising at least one induction coil for heating the roasting/grilling plate and comprising a regulation and control unit which measures the temperature of the roasting/grilling plate in time intervals which are larger, the smaller is a temperature difference between two successive temperature measurements, wherein exactly one regulation and control unit is allocated to each induction coil, the roasting/grilling device further comprising a calibration device with which measurement levels of various temperatures of the roasting/grilling plate may be determined and stored, wherein the roasting/grilling plate comprises several regions which may be individually heated and whose temperature may be determined and set in an individual manner, and wherein a temperature transfer between the

individual regions is prevented by corresponding means provided in the roasting/grilling plate.

51. (New) A thermostatically regulated roasting/grilling device with a roasting/grilling plate incorporated in the roasting/grilling device for directly placing food thereon, comprising at least one measurement coil forming an element of a high-frequency oscillation circuit, wherein with the at least one measurement coil the temperature of the roasting/grilling plate may be monitored in a contactless manner by way of electromagnetic radiation and the temperature may be used for the thermostatic regulation of the roasting/grilling power, wherein the roasting/grilling plate is a multi-layer plate which contains a layer of aluminium between two layers of stainless steel with a wedge incorporated in the aluminium layer, and wherein the roasting/grilling plate has a heat-resistant and corrosion-resistant surface, the roasting/grilling plate in the region of the roasting/grilling plate surface comprises at least two successive thin layers, which at least two thin layers in total have a phosphor constituent of 10-15% and a chromium constituent of 15-30%.